

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uppersov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/526,602	03/16/2000	Yasuharu Suda	54490-Z/JPW/DVD	1592
7:	590 01/27/2003			
John P White		EXAMINER		
Cooper & Dunham LLp 1185 Avenue of the Americas			RODEE, CHRISTOPHER D	
New York, NY 10036			ART UNIT	PAPER NUMBER
		·	1756	17
			DATE MAILED: 01/27/2003	16

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · · · · · · · · · · · · · · · · ·		//
	Applicati n No.	Applicant(s)
	09/526,602	SUDA ET AL.
Office Action Summary	Examiner	Art Unit
	Christopher D RoDee	1756
Th MAILING DATE of this communication app Period for Reply	pears on the cover she it with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be ti y within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONI	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).
1) Responsive to communication(s) filed on 26 l	December 2002 .	
2a)⊠ This action is FINAL . 2b)□ Th	is action is non-final.	
3) Since this application is in condition for allows closed in accordance with the practice under		
Disposition of Claims 4) Claim(s) 21-28 is/are pending in the application	nn.	
4a) Of the above claim(s) is/are withdra		
5) Claim(s) is/are allowed.	wii iioiii consideration.	,
6)⊠ Claim(s) <u>21-28</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/o	r election requirement	
Application Papers	r cicolon requirement.	
9) The specification is objected to by the Examine	r.	
10) The drawing(s) filed on is/are: a) acce	pted or b) objected to by the Exa	aminer.
Applicant may not request that any objection to th	e drawing(s) be held in abeyance.	See 37 CFR 1.85(a).
11)☐ The proposed drawing correction filed on	_ is: a)□ approved b)□ disappr	oved by the Examiner.
If approved, corrected drawings are required in re	ply to this Office action.	
12)☐ The oath or declaration is objected to by the Ex	aminer.	
Priority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 119(a)-(d) or (f).
a)☐ All b)☐ Some * c)☐ None of:		
 Certified copies of the priority document 	s have been received.	
2. Certified copies of the priority document	s have been received in Applica	tion No
 3. Copies of the certified copies of the prio application from the International Bu * See the attached detailed Office action for a list 	reau (PCT Rule 17.2(a)).	-
14)☐ Acknowledgment is made of a claim for domesti	ic priority under 35 U.S.C. § 119	(e) (to a provisional application).
a) The translation of the foreign language pro		
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	ry (PTO-413) Paper No(s) Patent Application (PTO-152)
S. Patent and Trademark Office		

Application/Control Number: 09/526,602

Art Unit: 1756

DETAILED ACTION

Claim Rejections - 35 USC § 103

Claims 21-24 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hou in US Patent 5,358,822.

Claims 25-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hou in US Patent 5,358,822 as applied to claims 21-24 and 28 above, and further in view of Sato et al. in US Patent 3,808,026.

These rejections were set first set forth in the Office action mailed 6 December 2000. They were withdrawn in the last Office action because of limitations that required both inorganic particles and a coloring agent subjected to dispersion and mixing (see last Office action, p. 3, bottom). The requirement of the coloring agent was removed from the claim limitations in the recent response. As a result, Hou is reapplied as relevant prior art alone for certain claims and in combination with Sato for other claims, as noted above.

Hou discloses a process of making a liquid toner in the process of Example 2. In the process a thermoplastic polymer (see patent claim 1) and a pigment (e.g., carbon black - an inorganic pigment) are placed in a solvent that is a good solvent for the polymer at high temperatures and a poor solvent at lower temperatures. The polymer and pigment are sonified (i.e., mixed) and heated to a temperature where the polymer is dissolved and then cooled so the polymer precipitates with the pigment. The precipitated polymer particles are removed from the solvent and then redispersed in ISOPAR and mixed with cupric naphthenate along with a steric stabilizer (apparently a dispersant). The reference discloses cupric naphthenate and zirconium octoate (i.e., zirconium octylate) as alternative charge control agents (col. 12, I. 12-20).

The second secon

Application/Control Number: 09/526,602

Art Unit: 1756

The art as discussed above and as discussed throughout prosecution is pertinent to the claims under consideration. The reference discloses heating of the resin (i.e., polymer) particles in the solvent and suggests that the resin and solvent have the claimed characteristics. See Office actions mailed 25 April 2001 (particularly p. 5) and 17 April 2002. Hou also discloses stirring while heating together with inorganic particles, in this case carbon black. Each of the resin and solvent also inherently has a solubility parameter and suggests the claimed solubility parameter, as discussed in the April 2002 Office action.

The art suggests the claimed process for the reasons of record. Applicants were advised in the last Office action that the combination of inorganic particles and coloring agent previously claimed was the basis for removal of the rejections. Because the combination is no longer claimed, the rejection is properly reapplied. No specific remarks have been presented to show why the previously applied art is not relevant to the instant claims.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

Application/Control Number: 09/526,602

Art Unit: 1756

Page 4

however, will the statutory period for reply expire later than SIX MONTHS from the date of this

final action.

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Christopher D RoDee whose telephone number is 703 308-2465. The

examiner can normally be reached on most weekdays from 6 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Mark Huff can be reached on 703 308-2464. The fax phone numbers for the

organization where this application or proceeding is assigned are 703 872-9310 for regular

communications and 703 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703 308-0661.

cdr

January 24, 2003

CHRISTOPHER RODEE PRIMARY EXAMINER